

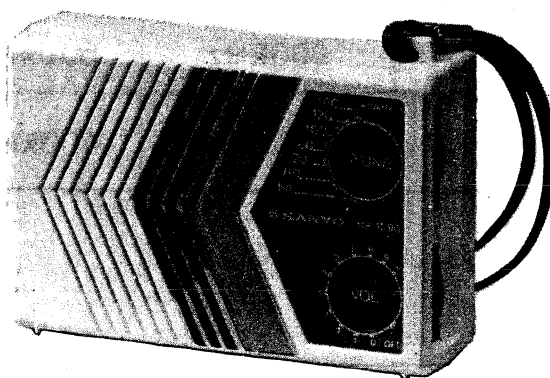
SERVICE MANUAL



SANYO

PORTABLE RADIO

RP 1390



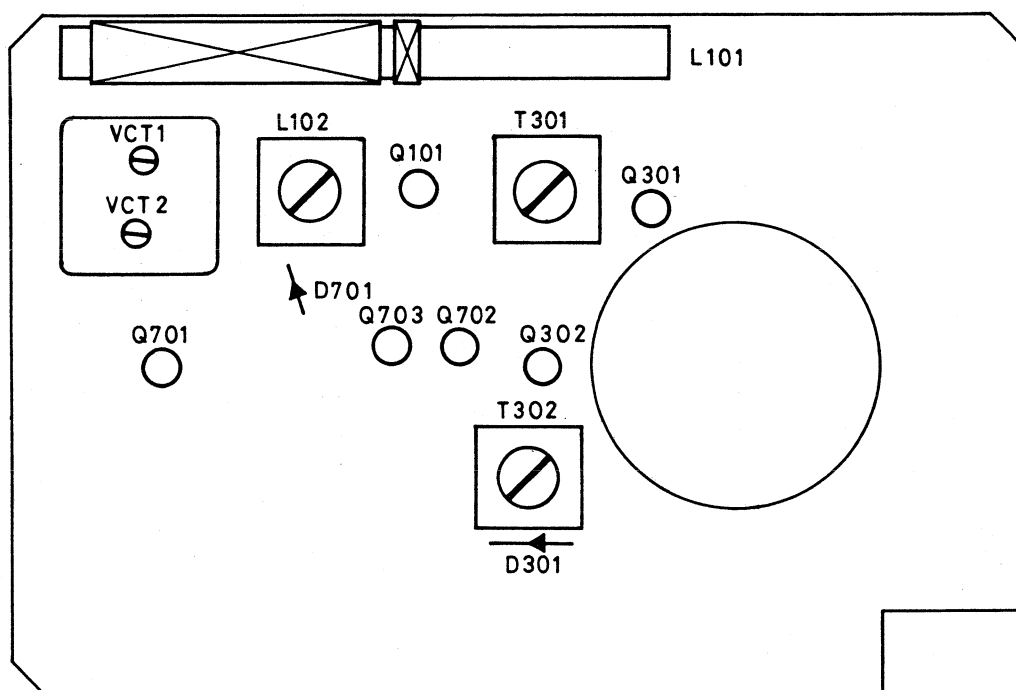
SPECIFICATIONS

Frequency Range:	MW 530 ~1605 kHz
Intermediate Frequency:	455 kHz
Audio Output:	Maximum 100 mW
Power Source:	DC 3V; Two Penlite ("AA" Size) Batteries
Transistors:	6
Diodes:	2
Speaker:	57 mm, Permanent Dynamic, 8 ohms
Dimensions:	77mm(H) x 104mm(W) x 30mm(D)
Weight: (Approx)	180g (without Batteries)

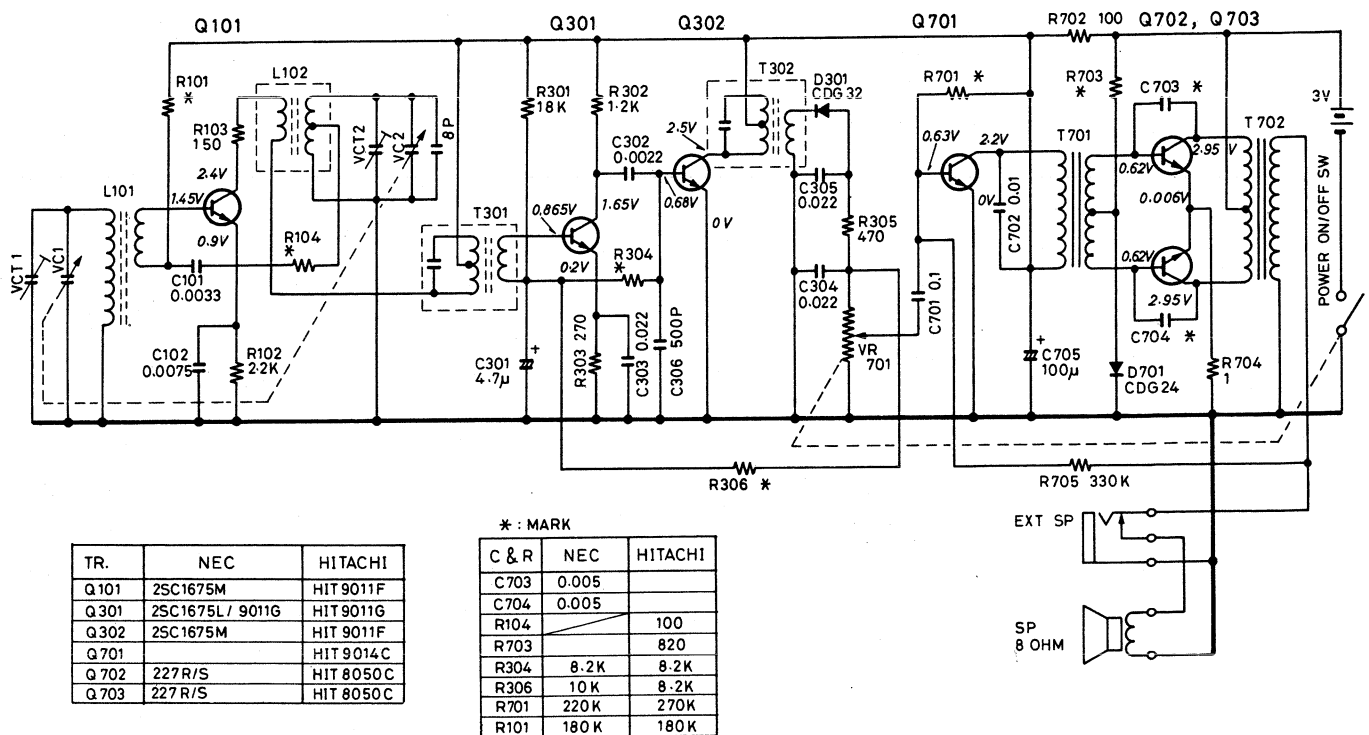
ALIGNMENT PROCEDURES

PROCEDEURS	SIGNAL INPUT	FREQUENCY OF SIGNAL GEN.	DIAL SETTING OF RADIO	ADJUSTMENT
IF STAGE	IRE LOOP	455kHz	Lowest end	IFT's T301 & T302
BAND COVERAGE	IRE LOOP	505kHz	Lowest end	Osc.Coil L102
		1640kHz	Highest end	Osc. Trimmer VCT2
TRACKING	IRE LOOP	600kHz	600kHz	Ant.Coil L101
		1400kHz	1400kHz	Ant. Trimmer VCT1

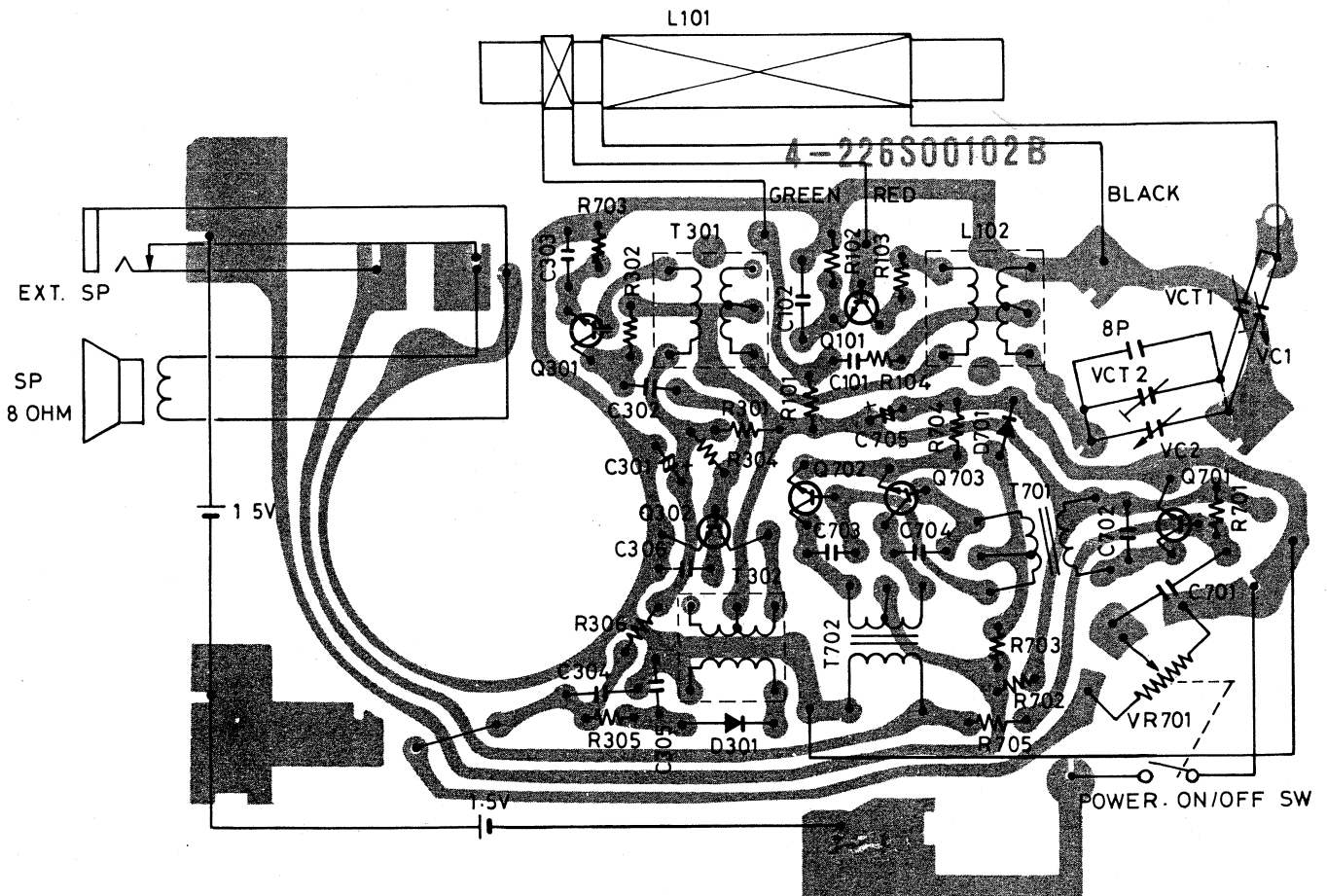
PARTS LOCATION



SCHEMATIC DIAGRAM



WIRING DIAGRAM



PARTS LIST

Ref. No.	Part No.	Description	Q'ty
PACKING & ACCESSORY			
	141-6-141T-07330	Display Carton	1
	141-6-231T-06200	Inner Poly Cover, Earphone Band	1
	4-152R-10896	Earphone	1
CABINET			
	141-0-111T-47030	Cabinet Ass'y	1
	141-2-126T-35201	Back Lid	1
	141-2-163T-76100	Rotary Knob, Tuner	1
	141-2-163T-76200	Rotary Knob, Volume	1
MOUNTING PARTS			
		Pan Head Screw 2.6 x 4mm, VC	2
		Pan Head Screw 2.6 x 6mm, Tuner Knob	1
		Pan Head Screw 2 x 4mm, VR Knob	1
ELECTRICAL PARTS			
L101	141-4-226S-00106	P.C.B. Ass'y	1
	4-257S-00600	ANT Coil	1
	124-2-369S-00100	Bracket Coil	1
L102	4-258T-28510	O. S. C Coil	1
T301	4-256S-00100	IFT	1
T302	4-256T-06440	IFT	1
	4-254S-00300	or IPT	1
T701	4-254S-00372	or OPT	1
	4-254S-00400		1
T702	4-254S-00472		1
VC1,2 } VCT1,2 } R701	4-224T-16600	Variable Capacitor	1
	4-222R-11800	Variable Resistor	1
	4-235S-00100	Socket	1
	141-2-336T-13100	Terminal Battery	1
	141-2-336T-09600	Terminal Battery	1
	123-2-336R-13200	Terminal Battery	1
	4-151T-16100	Speaker	1
Q101,302		Transistor CS9018 or ST9018 or CS9011 or HIT9011 or 2SC1675	2
Q301		Transistor CS9011 or ST9011 or HIT9011 or 2SC1675	1
Q701		Transistor 2SC923 or CS9014 or HIT9014 or ST9014	1
Q702,703		Transistor CS9013 or ST9013 or 2SD227 or HIT8050	2
D301		Diode KX1 or CDG24S or CDG24	1
D701		Diode CDG24S or CDG32 or H32	1
RESISTORS			
All resistors are Carbon P-type $\pm 10\%$, $\frac{1}{4}W$ unless otherwise noted.			
R704		1 ohm	1
R702		100 ohm	1
R103		150 ohm	1
R303		270 ohm	1
R305		470 ohm	1
R302		1.2K ohm	1
R304		8.2K ohm	1
R301		18K ohm	1
R101		180K ohm	1
R102		2.2K ohm	1
R705		330K ohm	1
R104		100 ohm	1

Ref. No.	Part No.	Description	Q'ty
ELECTRICAL PARTS			
R306	RESISTORS	10K ohm }	1
		8.2K ohm }	
R701		270K ohm }	1
		180K ohm }	
R703		220K ohm }	1
	CAPACITORS	820 ohm }	
		1K ohm }	1
C302		Ceramic 0.022 μ F 50V $\pm 20\%$	1
C101		Ceramic 0.0033 μ F 50V $\pm 20\%$	1
C102		Ceramic 0.0075 μ F 50V $\pm 20\%$	1
C303,304,305		Ceramic 0.022 μ F 50V $\pm 20\%$	3
C702		Ceramic 0.01 μ F 50V $\pm 20\%$	1
C306		Ceramic 500pF 50V $\pm 10\%$	1
C703,704		Ceramic 0.005 μ F 50V $\pm 20\%$	2
C701		Ceramic 0.1 μ F 50V $\pm 20\%$	1
C301		Electrolytic 4.7 μ F 6.3V	1
C705		Electrolytic 100 μ F 6.3V	1

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